

Fig. A1. Locations of transects and samples used for benthic monitoring in the Bay of Fundy Salmon Aquaculture Monitoring Program, in 1991 and 1992 (from Thonney and Garnier 1993).

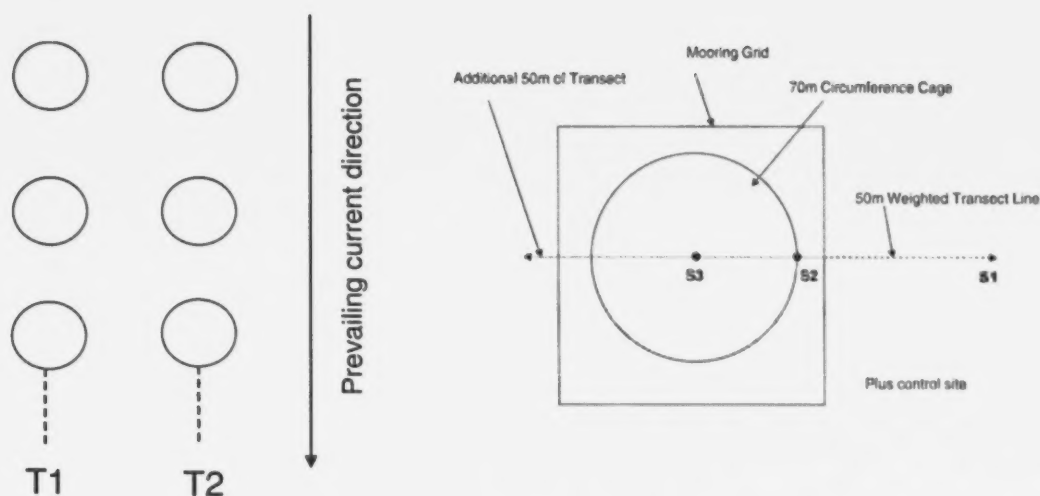


Fig. A2. Locations of transects and samples used for annual benthic monitoring in the Environmental Management Plan for the Marine Finfish Aquaculture Industry in the Bay of Fundy, New Brunswick, 1995-2001 (based on Washburn & Gillis 1995). Left: farm layout, showing locations of transects (T1 and T2) and current direction. Right: close-up of a cage showing locations of 3 sediment samples for each transect (S1 at downstream end of transect; S2 at cage edge; S3 at cage centre).

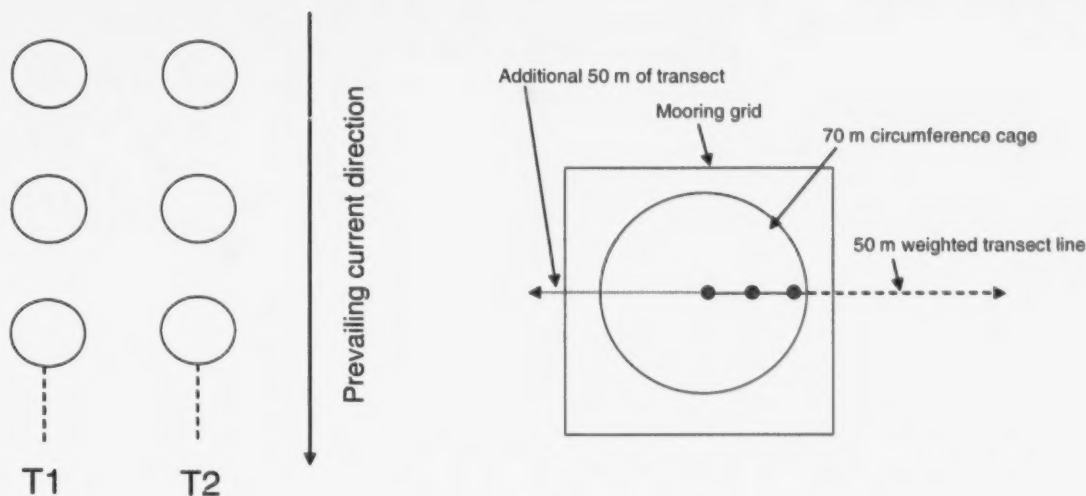


Fig. A3. Locations of transects and samples used in the Environmental Monitoring Program of the Environmental Management Guidelines for the Marine Finfish Cage Aquaculture Industry in New Brunswick, in 2002 and 2003 (based on NBDELG 2001). Left: farm layout, showing locations of transects (T1 and T2) and current direction. Right: close-up of a cage showing locations of 3 sediment samples for each transect (at cage centre, 10 m toward cage edge, and mid-way between the first two).

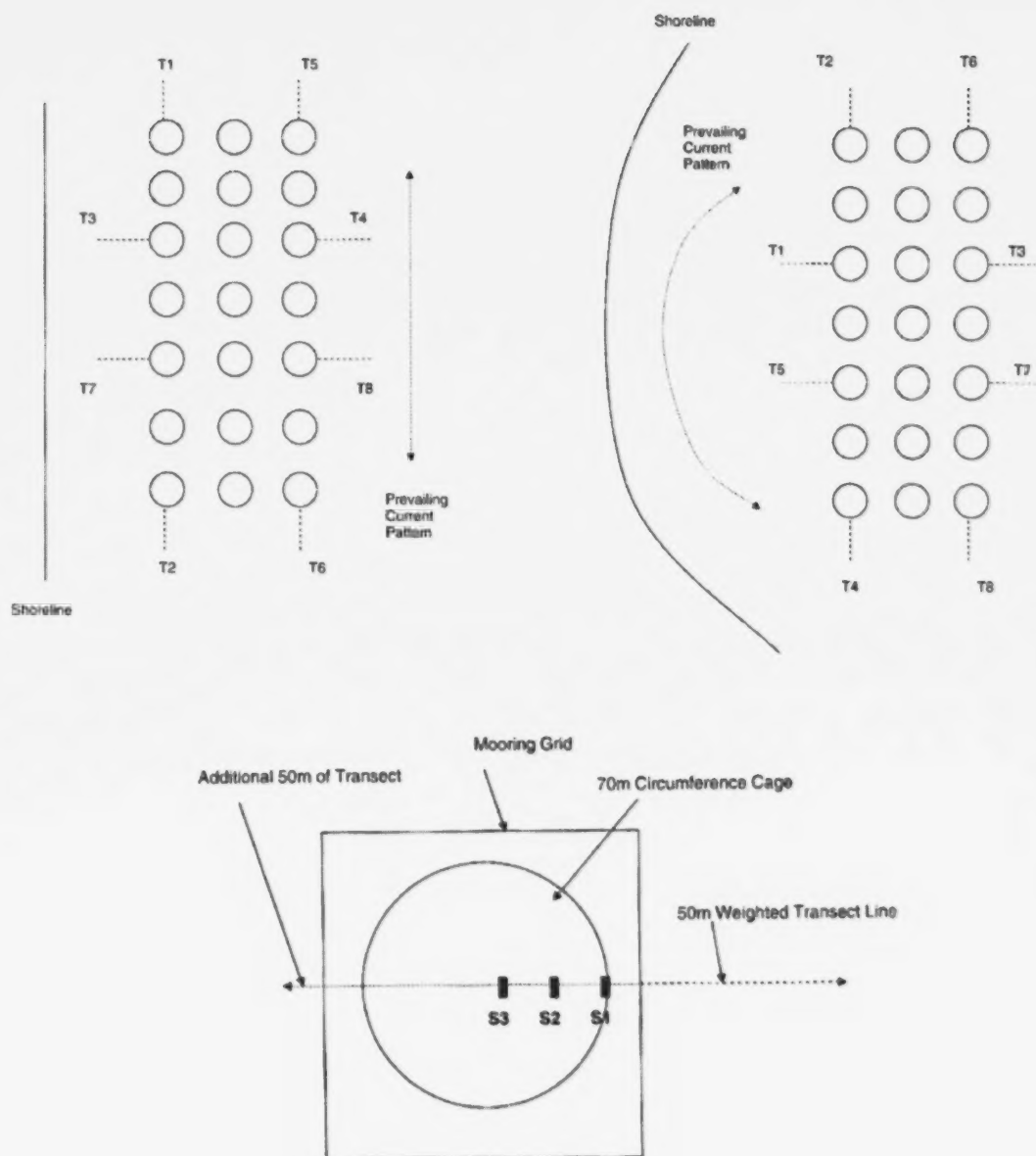


Fig. A4. Locations of transects and samples used in Tier 1 and Tier 3 monitoring in the Environmental Monitoring Program of the Environmental Management Program for the Marine Finfish Cage Aquaculture Industry in New Brunswick, Version 2.0, in 2004 and 2005 (from NBDENV 2004). Top left: transect locations for sites with generally linear and/or moderate to strong currents. Top right: transect locations for sites with generally curved and/or weak currents. Bottom: close-up of a cage showing locations of 3 sediment samples for each transect (at cage edge, 10 m toward cage centre, and mid-way between the first two).

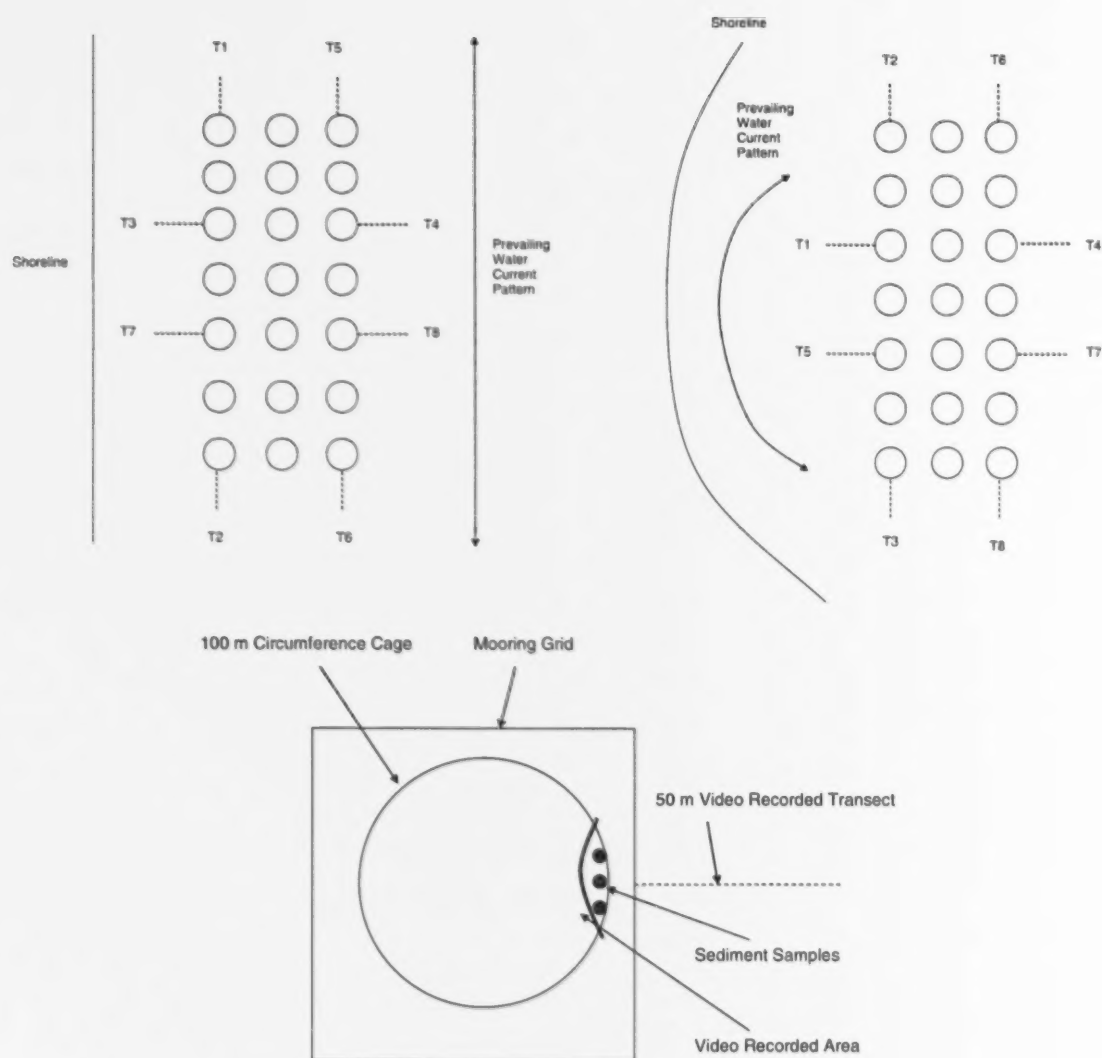


Fig. A5. Locations of transects and samples used in Tier 1 and Tier 3 monitoring in the Environmental Monitoring Program of the Environmental Management Program for the Marine Finfish Cage Aquaculture Industry in New Brunswick, Version 2.0, since 2006 (from NBDENV 2006b, 2007). Top left: transect locations for sites with generally linear water current patterns and moderate or high current speeds. Top right: transect locations for sites with generally curving water current patterns or low current speeds. Bottom: close-up of a cage showing locations of 3 sediment samples taken at the cage edge (in close proximity to each other, in similar substrate types) for each transect.

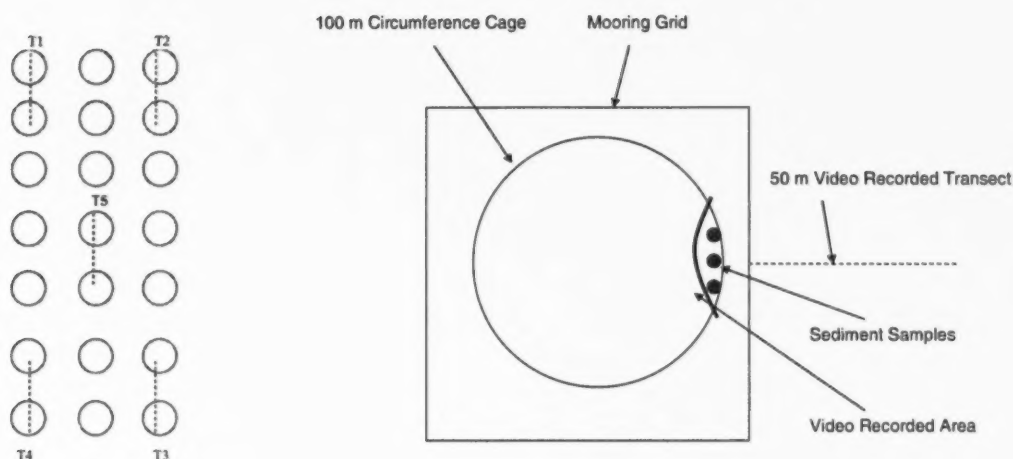


Fig. A6. Locations of transects and samples used in Tier 2 monitoring in the Environmental Monitoring Program of the Environmental Management Program for the Marine Finfish Cage Aquaculture Industry in New Brunswick, Version 2.0, in 2006 (from NBDENV 2006b). Left: transect locations (dotted lines). Right: close-up of a cage showing locations of sediment samples for each transect (same locations as for Tiers 1 and 2 in 2006).

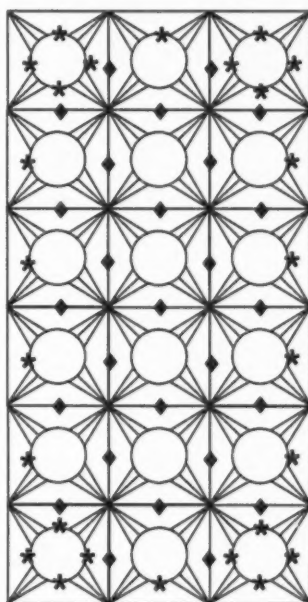


Fig. A7. Locations of samples used in Tier 2 monitoring in the Environmental Monitoring Program of the Environmental Management Program for the Marine Finfish Aquaculture Industry in New Brunswick, Version 2.0, since 2007 (from NBDENV 2007). Triplicate samples taken at each location marked by * and ◆ (large circles represent cages).

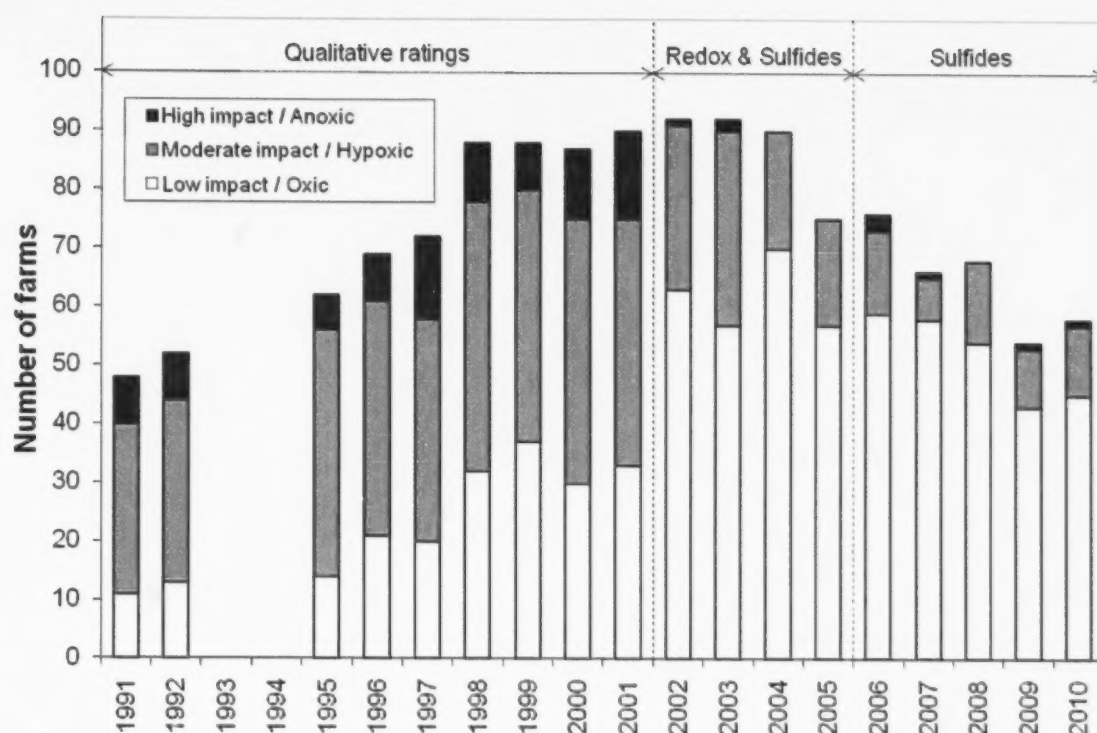


Fig. A8. Summary of environmental monitoring results for the southwestern New Brunswick marine finfish aquaculture industry, 1991-2009. There was no monitoring in 1993 and 1994. Because monitoring protocols and rating criteria have changed over the years, exact comparisons among years cannot be made. Qualitative ratings of high, moderate, and low impact were used in 1991-1992 and 1995-2001; geochemical ratings of anoxic, hypoxic, and oxidic have been used since 2002. Data sources: E. Garnier (Dominator Marine Services Inc.); New Brunswick Department of Environment.





